

ROTHAMSTED EXPERIMENTAL STATION
(LAWES AGRICULTURAL TRUST)

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HARPENDEN
HERTS
13th May, 1936.

Professor R. A. Fisher,

Dear Fisher,

The ^{enclosed.} following list represents my suggestions for the book of tables and the present state of the various items.

Bottomley has 48 pages plus eleven of introduction etc., so that this set would not be unduly bulky. I am definitely keen to have the variance ratio as well as z , because this ratio would be easier to remember than z , and because it can be computed directly from a slide rule. The reader ^cwould be ~~very~~ explicitly informed that the z table should be used for purposes of interpolation. There is a considerable practical demand for this table, as is evidenced by its publication in various places.

I am not sure that there is any need for log. sines and log. tangents; this would save 4 pages. I would like the Latin squares republished somewhere and on the whole this seems a good place. I am ^{neutral about} ~~neutral for~~ χ^2 for 2 x 2 tables, but in view of the frequency with which such tables have to be tested it may be worth while making it

readily available. On second thoughts I consider a table of significance levels of r is worth including as the transformation to t is tiresome.

There would not be room for full differences for squares and reciprocals, but differences similar to those in Chambers would be given.

Yours sincerely,

H. A. H.

As regards size I am inclined to favour that of the Annals of Eugenics. The flexible type of binding used by Goulfroy & Siddons in their 4 figure tables is worth considering.

Quantity	No. of figs	No. of pages	Present Position	Notes
Logs ₁₀	4	2	Copied, not checked	
Antilogs ₁₀	4	2	" " "	
Logs _{10e}	5	4	From seven figure log ₁₀ Not checked	1-10, 10-100.
Squares	6	2	Copied, not checked	0-999, exact, no differences.
Square roots	4	4	Want recopying	
Reciprocals	6	2	Copied, not checked	No differences.
Factorials	6	1	Worked on machine in duplicate, should be checked.	1-200
Log factorials	7	1	Not begun	1-200
Nat. sines	4	2	" "	
Nat. tangents	4	2	" "	
? Log, sines	4	2	" "	
? Log. tangents	4	2	" "	
Normal curve		1		
χ^2		1		
r		1		
t		1		
z		2		
Variance ratio s_1^2/s_2^2		2		
? χ^2 for 2x2 tables		1		
Random numbers		8?	Ready	As in my paper, 4,000 four figure nos.
? Latin squares		1		As in Empire Journal.
Miscellaneous constants		$\frac{1}{45}$		